

JetNet 4508i/4508if Series Industrial Ethernet Managed Switch
Quick Installation Guide V1.0

Overview

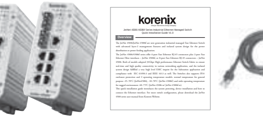
The JetNet 4508i/JetNet 4508if are new generation industrial managed Fast Ethernet Switch with advanced layer-2 management features and isolated system design for the power distribution or power feeding application.

The JetNet 4508i/4508if series offer 6-port Fast Ethernet RJ-45 connectors plus 2-port Fast Ethernet Fiber interfaces – JetNet 4508if, or 8-port Fast Ethernet RJ-45 connectors – JetNet 4508i. Both of models adopted 32Gbps High performance Ethernet Switch Fabric to ensure real-time and high quality connectivity in various networking application, and the isolated system design fulfilled a very high level EMC inquire for the Substation application and compliance with IEC 61850-3 and IEEE 1613 as well. The Switches also supports IP31 enclosure protection and 2 operating temperature models- normal temperature for general purpose -25~70°C (JetNet4508i), -10~70°C (JetNet 4508if) and wide operating temperature for rugged environment -40~75°C (JetNet 4508i-w/ JetNet 4508if-w).

This quick installation guide introduces the system powering, device installation and how to connect the Ethernet interface. For more switch configuration, please download the JetNet 4508 series user manual from Korenix Website.

Package Check List

- JetNet 4508i or JetNet 4508if with DIN Rail kit x1
- Quick Installation Guide
- Console Cable (RJ-45 /DB9)



Installation

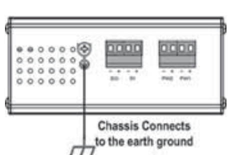
Mount the unit

Din-Rail mount: Mount the din-rail clip on the rear of JetNet 4508i/4508if on the DIN rail. For information about the DIN Rail installation, please refer to user's manual.



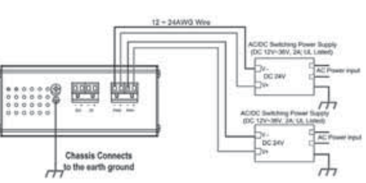
Grounding JetNet Switch

There is one grounding screw on the bottom side of JetNet 4508i/4508if. Connect the frame grounding of JetNet 4508i/4508if to the grounding surface to ensure safety and prevent noise to interfere communication.



Wiring the Power Inputs

1. Insert the positive and negative wires into the V+ and V- contact on the terminal block connector.



2. Tighten the wire-clamp screws to prevent the power wires from being loosened.

Notes: The recommended typical operating voltage is DC 24V (Input range: DC12~ 36 V), maximum power consumption is 15 Watts.

Wiring the Relay Output (DO)

The relay output contacts are in the bottom side as shown on Figure-3. The relay output (DO) is controlled by the pre-defined operating rules. To activate relay output function, please refer to the User's Manual for the Relay Output information.

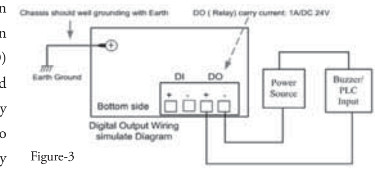


Figure-3

Note: The relay contactors only supports 1A current, DC 24V. It is not recommended to apply voltage and current higher than the specifications.

Wiring the Digital Input (DI)

The Digital Input (D.I.) contacts are in the bottom side of the device as shown in Figure-4.

It accepts one external DC type signal input and can be configured to send alert message through Ethernet when the signal is changed.

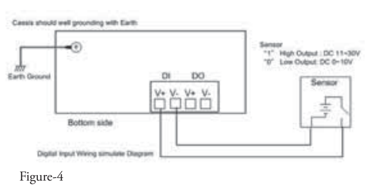


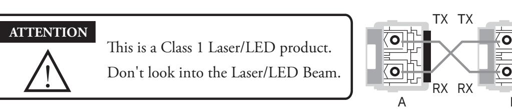
Figure-4

Note: the DI accepts DC type signal and supports isolated input circuit with Digital High Level input DC 11V~30V and Digital Low Level input DC 0V~10V. Do not apply voltage higher than the specification; it may cause internal circuit damage or a wrong action of DI.

Connecting to Network

1. Connecting the Ethernet Port: Connect the Ethernet port of JetNet 4508i/JetNet 4508if series with the other Ethernet device by Cat-5/Cat-6 UTP or STP cable, and then the LNK/ACT LED will turn on and start flashing to indicate the communication is occurred between 2 devices.

2. Connecting the Fiber Port: Cross-connect the transmit channel at each end to the receive channel at the opposite end as illustrated in the Figure-5 (JetNet 4508if series).



Device Management

JetNet 4508i/JetNet 4508if series provide both in-band and out-band configuration methods, and adopted same software as JetNet 4508/4508f series. You can configure the switch via the RS-232 console with the attached console cable or you can remotely manage the switch via network. You can choose Telnet/SSH, Web/HTTPS management.

1. Preparation for console management: Attach the RS-232 DB9 connector to your PC's COM port. Connect the RJ-45 connector to the console port of the JetNet 4508i/4508if Switch.

Go to Start -> Program -> Accessories -> Communication -> Hyper Terminal

Give a name to the new console connection.

Choose the COM name and select the correct serial settings. The serial port settings of JetNet 4508 are as below: 9600bps, No parity check, 8 Data bits, 1 stop bit

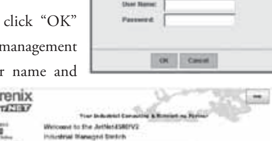
After connected, you will see the Switch login request. Type the username and password and then you can login. The default username is "admin", password is "admin".

Follow the manual to configure the software features.

2. Preparation for Web management: Before you attempt to use the embedded web interface to manage switch operation, verify that JetNet 4508i/4508if is properly installed on your network and that every PC on this network can access the switch via the web browser.

Type http://4508_IP_Address (The default IP address is 192.168.10.1.), then press Enter.

The login screen will appear next.



Type in the user name and password and click "OK" button. The welcome page of the Web-Based management interface will appear then. The default user name and password is admin/admin.



At the left column of the web management interface are the software features, where ring column will list the available settings.

For more operating instructions, please refer to the User's manual of JetNet 4508i/JetNet 4508if V2 series included in the packing or downloadable from the Korenix Website – www.korenix.com.

Support

5 Years Warranty

Each of Korenix's product line is designed, produced, and tested with high industrial standard. Korenix warrants that the Product(s) shall be free from defects in materials and workmanship for a period of five (5) years from the date of delivery provided that the Product was properly installed and used.

This warranty is voided if defects, malfunctions or failures of the warranted Product are caused by damage resulting from force measure (such as floods, fire, etc.), other external forces such as power disturbances, over spec power input, or incorrect cabling; or the warranted Product is misused, abused, or operated, altered and repaired in an unauthorized or improper way.

Attention! To avoid system damage caused by sparks, please DO NOT plug in power connector when power is on.

The product is in compliance with Directive 2002/95/EC and 2011/65/EU of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronics equipment(RoHS Directives & RoHS 2.0)

Korenix Customer Service

KoreCARE is Korenix Technology's global service center, where our professional staffs are ready to solve your problems at any time Korenix global service center's e-mail is KoreCARE@korenix.com.

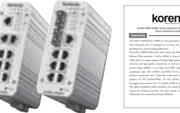
For more information and documents download please visit our website:
http://www.korenix.com/downloads.htm

导言

JetNet4508i/JetNet4508if是新一代工业管理型快速以太网交换机具有先进的二层管理功能和独立的系统设计供配电和供电的应用。JetNet4508i/4508if系列提供6端口快速以太网RJ-45接口以及2端口快速以太网光纤接口 - JetNet4508if，或8端口快速以太网RJ-45连接器 - JetNet4508i。这两种机型采用32Gbps的高性能以太网交换矩阵，以确保在各种网络应用程序的实时性和高品质的连接，独立系统设计实现了对分站应用高水平的电磁兼容性要求，并符合IEC61850-3和IEEE 1613标准。该交换机还支持IP31防护等级和2种操作温度模型 - 常温下一般用应用-25～70℃（JetNet 4508i），-10～70°C（JetNet4508if）和宽工作温度恶劣的环境-40～75° C（JetNet4508i-W/ JetNet4508if-W）。

本快速安装指南介绍了系统供电，设备安装，以及如何连接以太网接口。欲了解更多的交换机配置，请从Korenix网站下载JetNet4508系列用户手册。

产品清单





- JetNet 4508i or JetNet 4508if
带有DIN 导轨套件 x1
- 快速安装手册
- 控制电缆 (RJ-45 /DB9)

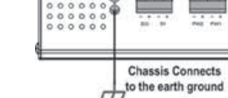
安装

安装



Din导轨安装: 安装在JetNet4508i/4508if在DIN导轨后部的DIN导轨夹有关DIN导轨安装的信息，请参考用户手册。

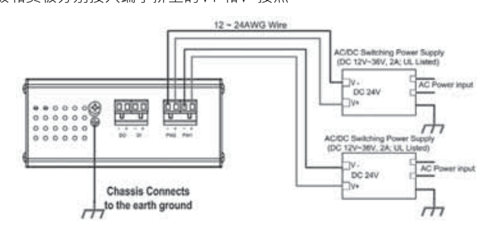
JetNet 4508i / 4508if接地



在JetNet 4508i/4508if的底侧有一个接地螺丝。将JetNet4508i/4508if的外壳接地以保证安全和防止噪声干扰通讯。

电源接线

1. 正极和负极分别接入端子排上的V+ 和V- 接点。



2. 拧紧线夹的螺钉，以防止电源线被松开。

注意: 推荐典型的工作电压DC 24V (电压范围: DC12~ 36 V), 最大能耗是15 Watts

继电器输出接线(DO)

继电器输出触点在底侧见Figure-3。继电器输出（DO）是通过预先定义的操作规则来控制。要激活继电器输出功能，请参阅用户手册为继电器输出的信息。

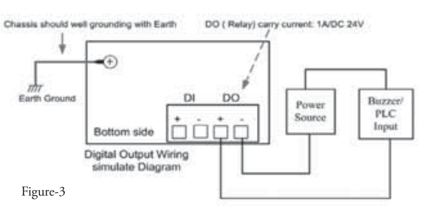


Figure-3

注意: 继电器接触器仅支持DC24V 1A。不推荐应用的电压和电流高于规格

数字量输入接线 (DI)

数字输入（DI）的接触是在交换机的底侧，如图Figure-4.

它接受一个外部DC信号输入，并且可以通过配置用以太网发送警报消息当报警被激发。

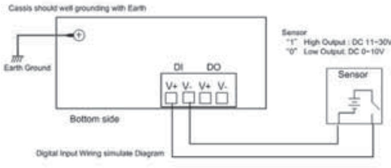


Figure-4

注意:数字量输入点接受DC型信号并支持用数字高电平输入DC11V～30V和数字低电平输入DC0V～10V输入的隔离电路。不要施加电压高于规格;这可能会造成内部电路损坏或数字量输入点的误动作。

连接到网络

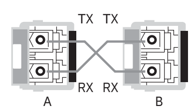
1. **连接以太网端口**: 通过Cat-5/ CAT-6 UTP或STP电缆连接JetNet4508i/ JetNet4508if系列到其他网络设备，然后LNK/ ACT指示灯将亮起并开始闪烁，表明两个设备之间通信成功。

2. **连接光纤端口**:交叉连接传输信道到相应接受信道，相反也一样。如图所示(JetNet 4508if series)。

ATTENTION



This is a Class 1 Laser/LED product.
Don't look into the Laser/LED Beam.



设备管理

JetNet 4508i/JetNet 4508if 系列提供了频带内和频带外的两种配置方法，并和JetNet 4508/4508f采用相同的软件。您可以通过附带的电缆连接RS-232控制端口配置交换机或通过网络远程管理交换机。您可以选择的Telnet/SSH，Telnet/ HTTPS管理交换机。

1. **控制管理准备**: 连接RS-232 DB9接头到PC的COM口。连接RJ-45连接头JetNet 4508i/4508if交换机控制端口。

点击Start -> Program -> Accessories -> Communication -> Hyper Terminal

给新的控制连接命名。

选择COM名称，并选择正确的串口设置。 JetNet4508的串行端口设置如下：9600bps, No parity check, 8 Data bits, 1 stop bit

连接后，你会看到交换机的登录请求。输入用户名和密码，然后就可以登录。

默认用户名为"admin"，密码为"admin"。 按照手册进行配置软件功能。

2. Web管理准备：在使用嵌入的Web界面来管理交换机操作前，请验证JetNet 4508i / 4508if已正确安装在您的网络上，并且这种网络上的每一台PC可以通过Web浏览器访问交换机。

启动PC上的网页浏览器（Internet Explorer或Mozilla Firefox浏览器）。

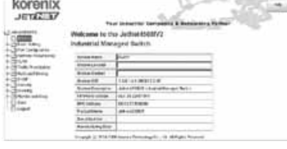
输入http://4508_IP_Address (默认IP 地址是 192.168.10.1.), 然后按Enter键。

接着在登录屏幕上会出现。



输入用户名和密码，点击 "OK" 键。然后显示基于Web的管理界面的欢迎页面。默认的用户名和密码是admin/admin。

在Web管理界面的左侧栏是软件功能，其中环列将罗列出可用的设置。



有关详细的操作说明，请参考JetNet4508i/ JetNet4508if v2系列产品的用户手册，可从Korenix网站下载 - www.korenix.com.cn。

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注意! 请勿于电源开启时插拔接线端子，以避免产生火花造成系统损坏。

此产品保证完全符合欧盟2003年1月27日电气和电子设备危害物质限制委员会所提出的限用指令2002/95/EC(ROHS禁令)及2011/65/EU(RoHS 2.0)。

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Granted Invention: I 321415
Granted Invention: I 344766
Granted Invention: I 346480
Granted Invention: I 356616
Granted Invention: I 364684
Granted Invention: I 376118
Granted Invention: I 393317
Granted Invention: I 398066
Granted Invention: I 398125
Utility Model: M 339841
Utility Model: M 339840